of either the first circuit board or the second circuit board. Thus, what is needed is a method for assembling and recycling a camera that combines two or more electronic circuits in a way that reduces the labor and risk of damage incident to the joining of the first and second circuits while ensuring that the circuits stay in joined relationship during the life cycle of the one time use camera. What is also needed is a method for assembling and recycling the camera that reduces the amount of labor and the risk of damage that is incident with the separation of the circuit boards.

Concluded

It will also be appreciated that during the recycling process, it is necessary to provide positive assurance that the camera system is operating as a camera of the first type or a camera of the second type. Thus, what is also needed is a camera system having a second circuit, the presence of which is easily detectable after manufacture by testing or quality assurance monitoring equipment.

Please replace the SUMMARY OF THE INVENTION located on page 4 with the following rewritten SUMMARY OF THE INVENTION:

Aln one aspect of the present invention, a camera is provided having a first electronic circuit board with first electronic circuit to perform a first set of camera functions. The first electronic circuit has a first set of electrical contacts. A second electronic circuit board is also provided. The second electronic circuit board has a second electronic circuit with a second set of electrical contacts to engage the first set of electrical contacts. The second electronic circuit is defined to cooperate with first electronic circuit to perform a second set of camera functions when the second set of electrical contacts engage the first set of electrical contacts. A frame holds the first electronic circuit board. A cover joinable to the frame is provided. A mounting is also provided for holding the second electronic circuit board and positioning the second set of electrical contacts so that when the cover is joined to the frame the second set of electrical contacts are positioned to engage the first set of electrical contacts to cause the first electronic circuit board to cooperate with the second electronic circuit to perform the second set of camera functions.

In another aspect of the present invention, a camera having a cover is provided. A drive member is mounted to the cover and movable between a

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first position and a second position. A first electronic circuit board having a first electronic circuit that performs at least one of a first set of camera functions in response to movement of the drive member into the second position is also provided. A second electronic circuit board having a second electronic circuit that combines with the first electronic circuit to cause the combined circuit to perform a second set of camera functions is also provided. A mounting positions the second electronic circuit board between the drive member and the first electronic circuit, with the second electronic circuit positioned to block movement of the drive member at a third position and prevent movement of the drive member into the second position.

Please replace the last paragraph beginning on page 8, with the following rewritten paragraph:

-By using such a camera electronic system 40, a family of different one time use cameras 10 can be developed that incorporate first circuit board 42. This common use of first circuit board 42 reduces the development costs and cost of recycling each camera 10 in the family.

✓ Please replace the paragraph beginning on page 9, line 16 with the following rewritten paragraph:

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(malerded)

Q5

(concluded)

electronic circuit 44 can be joined to second electronic circuit 50 in order to achieve the electrical engagement necessary to permit the first electronic circuit 44 and the second electronic circuit 50 to cooperate to perform the second set of functions. This substantially reduces the possibility that first electronic circuit 44 or second electronic circuit 50 will be damaged by the process of mechanically joining or separating the electrical circuits.

Please replace the paragraph on page 10, line 5 with the following rewritten paragraph:

Further, it will be appreciated that in the embodiment shown in Figs. 1-5, mounting 70 slidably receives and holds second circuit board 52. Thus, during recycling and manufacture, second circuit board 52 can be installed and removed from second cover 14 in a simple manner. This also greatly simplifies the process of modifying the set of camera functions that camera 10 performs.

-It will further be appreciated that to reduce the cost of first

Please replace the paragraph on page 10, line 23 with the following rewritten paragraph:

circuit board 42, or for other reasons, first circuit board 42 and first electronic circuit 44 can be defined in such a manner that activation of certain functions of the first electronic circuit 44 interferes with the performance of the second set of camera functions. This can happen where, for example, one or more of the second set of camera functions is incompatible with the one or more of the first set of camera functions. Under such circumstances it is necessary to prevent the first electronic circuit 44 from performing the interfering functions. In the embodiment shown in Figs. 2 - 6, the driving member 68 is disabled mechanically by interposing second circuit board 52 in the path of travel of driving member 68. This prevents driving member 68 from engaging dome switch 46 which in turn, prevents first electronic circuit 44 from being operative in a manner that interferes with the performance of the second set of camera functions. Similarly, it will be appreciated that second circuit board 52 can also be used to interfere with the passage of light and other environmental conditions that can cause other detectors (not shown) of first election circuit to interfere with the performance of the second set of camera functions. --

 \mathcal{Q}^7

Please replace the paragraph beginning on page 12, line 14 with the following rewritten paragraph:

Fig. 7 shows a detailed embodiment of a first electronic circuit 42 having a flash circuit 200 for use in providing a press and hold type camera flash. Flash circuit 200 incorporates a power source 201, for example, a battery such as one 1.6 volt cell. The flash circuit 200 includes a self-oscillating flash charging circuit 260, and a flash illumination circuit 265. Flash charging circuit 260 comprises an oscillating transistor 205, step-up oscillating transformer 207, rectifier diode 208, LED ready light 204. A manually operated, normally open push button switch, 206, is operated by, for example, a driving member 68 passing through a port 69 in second cover 14 as is generally described above. When closed, switch 206 causes flash charging circuit 260 to store electrical energy in a flash energy capacitor 214. The customer presses switch 206 and holds it closed until the LED ready light 204 illuminates to indicate that flash capacitor 214 is charged to flash ready voltage. The customer then repeats this procedure for the next picture.

Please replace the paragraph beginning on page 13, line 3 with the following rewritten paragraph:

Also shown in Fig. 7 are contacts 215a - 221a. These contacts provide electrical connection points at strategic locations within the flash circuit 200. As discussed above, contacts 215a - 221a are provided so that they can be engaged by a second electronic circuit, shown in this embodiment as 252 to cause the combined flash circuit 200 and second electronic circuit 252 to perform a desired set of functions.

Please replace the paragraph beginning on page 13, line 9 with the following rewritten paragraph:

-The embodiment of Fig. 8 shows an embodiment of second electronic circuit 252 having second contacts 215b - 221b that engage respectively contacts 215a - 221a to interconnect the operation of flash circuit 200 and second electronic circuit 252. Second electronic circuit 252 contains a timeout circuit 270, an auto-restart circuit 280 and a fatbit recording circuit 290. Timeout circuit 270 includes transistors 222 and 223, timing capacitor 230 and "one-touch" push button switch 233 and diode 232. Auto-restart circuit 280

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(concluded)

includes transistors 224, 225, diode 237 and capacitor 235. Fatbit recording circuit 290 includes fatbit recording LED 240, fatbit selection switch 242, zener diode 238 and capacitor 241.

Please replace the paragraph beginning on page 13, line 19 with the following rewritten paragraph:

-Referring now to Fig. 8 the operation of the flash circuit 200 in conjunction with second driving circuit 252 will be described. It will be recalled that flash circuit 200 operates in the "press and hold" mode when switch 206 is closed. This switch must be functionally disabled in order to permit flash circuit 200 to operate in a different manner. As has been described in greater detail above, in accordance with an embodiment of the present invention, second electronic circuit 252 is deposited on a second wiring board such as second wiring board 52 shown in Fig. 3. This second wiring board is physically interposed between driving member 68 and switch 206. This prevents driving member 68 from closing switch 206 preventing flash circuit 200 from operating in the press and hold mode. Advantageously, "one-touch" push button switch 233 can be disposed on second wiring board 52 in the path of travel of driving member 68. Thus, driving member 68 can be used to cause flash circuit 200 to activate the "press and hold mode" when second electronic circuit 252 is not present or to cause second electronic circuit 252 to enter the "one touch" mode when second electronic circuit 252 is present.

Please replace the paragraph beginning on page 16, line 5 with the following rewritten paragraph:

-Second electronic circuit 252 also comprises a fatbit recording circuit 290. A fatbit is a term that is used to describe optically recorded metadata that is recorded on a film by a one time use camera. When a fatbit is detected during photofinishing, the photofinisher knows to print the image using, for example, a panoramic aspect ratio, to execute digital zoom or to perform some other type of special image processing procedure. Essentially the fatbit recorder comprises a light emitting diode that exposes a predefined non-image portion of the image recorded on the film.

Please replace the paragraph beginning on page 16, line 13 with the following rewritten paragraph:

A12

charged during closure of switch 211 and provides positive bias to the base of transistor 224 for a time period greater than the period for which switch 211 is closed, keeping transistors 224 and 225 on for this period. Transistor 225 provides a current path for positive pulses from the oscillation transformer 207b and this becomes the energy source for illuminating fat bit recording LED 240. The illuminating current flows from transistor 225 collector, zener diode 238, current limiting resistor 239, LED 240 and data recording on-off switch 242 to positive battery potential 201a. The voltage of zener diode 238 is chosen so that it will not conduct when switch 233 is closed and thus no data recording will be made when switch 233 is pressed to initiate flash charging.

Please replace the paragraph beginning on page 16, line 30 with the following rewritten paragraph:

--Fig. 9 shows another embodiment of a second electronic circuit 251 for use in a flash camera having one touch charging and that automatically restarts after charging. In this embodiment, flash circuit 200 is combined with a second electronic circuit 251 having a one touch charging circuit, a timeout circuit 270, an auto-restart circuit 280. These circuits combine in the manner described above to provide a circuit that executes one touch charging and that restarts the charging process immediately after a discharge of flash light.

Please replace the paragraph beginning on page 17, line 5 with the following rewritten paragraph:

embodiment of a second electronic circuit 250 which provides "one-touch" operation of the charger. Second electronic circuit 250 is a circuit that converts the operation of the flash charging system so that the user does not have to press and hold the flash charge button in order to permit the charger to charge capacitor 214. Instead, using the circuit by combining the circuit of Fig. 7 with the second electronic circuit 250, a circuit is provided that permits the user to touch the charge button only once to initiate a charge flash cycle, and then permits the user to release that charge button without interrupting the charging process. This combination circuit further is adapted to shut off the charging process when the appropriate charge is placed across charge capacitor 214. The customer presses

214

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(concluded)

and immediately releases switch 233 to initiate flash charging for about 30 seconds. The customer repeats this procedure for the next picture.

In the Claims:

Please cancel claims 1 through 19.

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S4 (R1,126)

Please add new claims 35 through 69 as set forth below:

0,1,26

20 25. (New) A camera, comprising:

a first electronic circuit board having a first electronic circuit to perform a first set of camera functions, the first electronic circuit having a first set of electrical contacts;

a second electronic circuit board having a second electronic circuit with a second set of electrical contacts to engage the first set of electrical contacts with the second electronic circuit defined to cooperate with the first electronic circuit to perform a second set of camera functions;

a frame holding the first electronic circuit board;

a cover joinable to the frame;

a mounting for holding the second electronic circuit board and positioning the second set of electrical contacts so that when the cover is joined to the frame the second set of electrical contacts are positioned to engage the first set of electrical contacts to cause the first electronic circuit board to cooperate with the second electronic circuit to perform the second set of camera functions.

20 36. (New) The camera of claim 36, wherein said second electronic circuit board comprises a flex circuit.

(New) The camera of claim 26, wherein said mounting comprises alignment surfaces for aligning the second electronic circuit board with the first electronic circuit when the cover is joined to the frame.

238. (New) The camera of claim 36, wherein said cover comprises clamps incorporated into the cover and pressuring the contacts of said flex circuit into engagement with contacts of the first electronic circuit.

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